TECHNICAL INFORMATION AND SERVICE DATA



Model 562-GF

FIVE VALVE, TWO BAND,
32 VOLTS D.C. OPERATED SUPERHETERODYNE

ISSUED BY:

AMALGAMATED WIRELESS (AUSTRALASIA) LTD.



ELECTRICAL SPECIFICATIONS

rrequency kanges:	
Medium Wave	540-1600 Kc/s. (555-187.5 Metres)
Short Wave	6·18 Mc/s. (50·16 Metres)
Intermediate Frequency	455 Kc/s.
Dial Lamps 6.3 volt	rs, 0.25 Amp. M.E.S.
Fuses	5 Amp. Cartridge
Valve Complement:	
(1) 6BA6 R.F. Amplifier.	
(2) 6BE6 Converter	
(3) 6BA6 I.F. Amplifier.	
(4) 6AV6 Detector, A.F. Amplifier, A	A.V.C.
(5) 6AQ5 Output.	
Vibrator Power Unit	26671
Vibrator Cartridge	V6732
Loudspeaker:	
12 inch permanent magnet. Part No. 20767. Transformer TU201. V.C. Impedance 6.5 ohms at 400 C.P.	s.
Undistorted Power Output	2.5 watts

General Description:

The model 562-GF is a 5 valve, two band, 32 volts D.C. operated Phono/Radio superheterodyne and features of its design include:—Tropic-proof construction, automatic volume control, magnetite cores in I.F. transformers and broadcast oscillator coil, air-dielectric trimming capacitors, straight-line edge lighted perspex dial scale.

The model also incorporates the Garrard RC75A which is designed to play 33½, 45 and 78 r.p.m. records. The record changer features a D.C. motor and simple construction with minimum of working parts, ensuring trouble-free service.

Connection to Power Supply:

The receiver will not operate unless it is connected to the power point in the correct polarity. It is necessary, therefore, that all power points to which the receiver may be connected are wired with the same polarity. The plug should be wired to the receiver power cable so that the red wire connects to the positive side of the supply and the black wire to the negative side.

A warning is given on the use of "Double Adaptors", which normally have one outlet in the reverse polarity to the other. If the use of a "Double Adaptor" is essential, the outlet with the correct polarity only should be used for the receiver.

Interference Suppression:

If the receiver is in operation whilst the motor generator is running some form of suppression will generally be necessary to reduce interference which is radiated from the generator and picked up by the receiver aerial.

It is recommended that the following be carried out:-

To each generator brush connect one end of a 0.5 μF capacitor. Then connect the other ends of the capacitors to the generator housing.

The generator housing should be earthed using a wire as short as possible and of not less than 7/.029 insulated cable.

Chassis Removal:

- (1) Remove the control knobs by pulling them straight off their spindles. The Phono/Radio knob is situated inside the record changer compartment.
- (2) Disconnect the loudspeaker, phono-motor and pick-up cables.
- (3) The chassis is held in the cabinet by four screws through the receiver baseboard. Removal of these screws enables the chassis to be withdrawn.

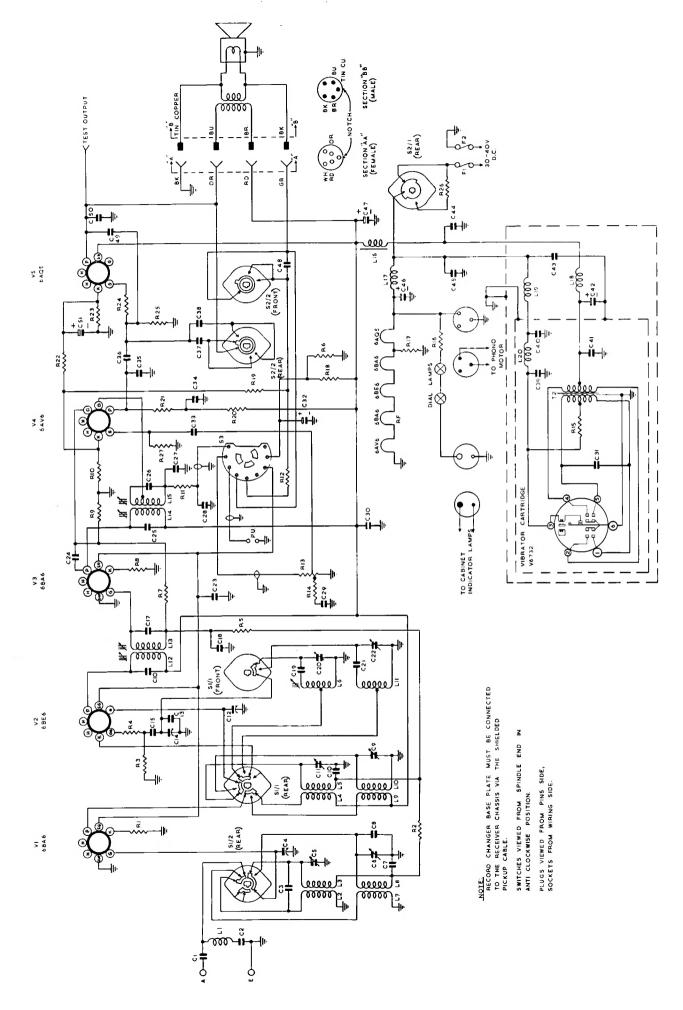


FIG 2

Vibrator Cartridge Replacement:

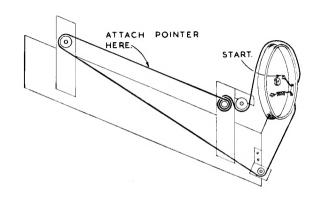
Remove the chassis from the cabinet, the lid from the outer case of the vibrator unit and the lid from the inner case. The cartridge is then accessible.

Vibrator Unit Replacement.

Remove the chassis from the cabinet and remove the lid from the vibrator unit outer case. Beneath the chassis disconnect three leads, red, yellow and black, which come from the vibrator unit. The unit may then be lifted out of the case.

Drive Cord Replacement:

The accompanying diagram shows the route of the cord and the method of attachment.



ALIGNMENT PROCEDURE

Manufacturer's Setting of Adjustments:

The receiver is tested by the manufacturer with precision instruments and all adjusting screws are sealed.

Realignment should be necessary only when components in tuned circuits are repaired or replaced or when it is found that the seals over the adjusting screws have been broken.

It is especially important that the adjustments should not be altered unless in association with the correct testing instruments listed below.

Under no circumstances should the plates of the ganged tuning capacitor be bent as the unit is accurately aligned during manufacture and cannot be readjusted unless by skilled operators using special equipment.

For all alignment operations, connect the "low" side of the signal generator to the receiver chassis, and keep the generator output as low as possible to avoid A.V.C. action. Also, keep the volume control in the maximum clockwise position.

Testing Instruments:

- (1) A.W.A. Junior Signal Generator, type 2R7003, or
- (2) A.W.A. Modulated Oscillator, Series J6726.

If the modulated oscillator is used, connect a 0.25 megohm non-inductive resistor across the output terminals, and for short wave alignment, an additional 400 ohms non-inductive resistor in series with the "high" output lead of the instrument.

(3) A.W.A. Output Meter, type 2M8832.

ALIGNMENT TABLE

Alignment	Connect "high" side of	Tune Generator	Tune Receiver Dial	Adjust for Maximum
Order:	Generator to:	to:	to:	Peak Output:
1	R.F. Section of Gang (Centre portion)	455 Kc/s.	540 Kc/s. (4QL)	L15 Core
2	R.F. Section of Gang (Centre portion)	455 Kc/s.	540 Kc/s. (4QL)	L14 Core
3	R.F. Section of Gang (Centre portion)	455 Kc/s.	540 Kc/s. (4QL)	L13 Core
4	R.F. Section of Gang (Centre portion)	455 Kc/s.	540 Kc/s. (4Ql)	L12 Core
Repeat th	e above adjustments until the r	naximum output is obtain	ned.	
5	Aerial Terminal	600 Kc/s.	600 Kc/s. (7ZL)	Osc. Core Adj. (L6)
6	Aerial Terminal	1500 Kc/s.	1500 Kc/s. (3AK)	Osc. Adj. (C20)
7	Aerial Terminal	1500 Kc/s.	1500 Kc/s. (3AK)	R.F. Adj. (C11)
8	Aerial Terminal	1500 Kc/s.	1500 Kc/s. (3AK)	Aer. Adj. (C5)
Repeat a	djustments 5, 6, 7 and 8.			1
9	Aerial Terminal	16 Mc/s.	16 Mc/s.	Osc. Adj. (C22)‡
10	Aerial Terminal	16 Mc/s.	16 Mc/s.	R.F. Adj. (C9)†
11	Aerial Terminal	16 Mc/s.	16 Mc/s.	Aer. Adj. (C6)†

^{*} Rock the tuning control back and forth through the signal.

[‡] Use minimum capacity peak if two can be obtained. Check to determine if C22 has been adjusted to correct peak by tuning the receiver to approximately 15.09 Mc/s. where a weaker signal should be received.

[†] Use maximum capacity peak if two can be received.

REPLACEMENT PARTS

Cabinet	28118
Dial Scale	32217
Knob Assembly	26516
Knob Assembly, Range and Tone	26519
Knob Assembly, Phono/Radio	31844
Lamp Holder	32804
Pointer	33048
Socket Valve	19965
Socket Valve, Floating	2327

When ordering, always quote the above part numbers and in the case of coloured parts, the colour plus the part number.

D.C. RESISTANCE OF WINDINGS

Winding	D.C. Resistance in ohms.
Aerial Coil (M.W.)	
Primary (L2)	16
Secondary (L3)	5
Aerial Coil (S.W.)	
Primary (L7)	3
Secondary (L8)	
R.F. Coil (M.W.)	
Primary (L4)	35
Secondary (L5)	4
R.F. Coil (S.W.)	
Primary (L9)	*
Secondary (L10)	*
Oscillator Coil (M.W.) (L6)	5
Oscillator Coil (S.W.) (L11)	*
I.F. Filter (L1)	17.5†
I.F. Transformer Windings	10
R.F. Choke (L17, L19, L20)	*
H.T. Filter Choke (L16)	200
R.F. Choke (L18)	18
Loudspeaker Input Transformer (T1)	
Primary	430 or 525
Secondary	*
Vibrator Transformer (T2)	
Primary	3
Secondary	900

^{*} Less than 1 ohm.

SOCKET VOLTAGES

VALVES	Cathode to Chassis Volts:	Screen Grid to Chassis Volts:	Anode to Chassis Volts:	Anode Current mA:	Heater Volts:†
5BA6 R.F. Amp. M.W	1.7	70	200	2.75	6.3
S.W	1.8	70	200	2.B5	6.3
SBE6 Converter M.W	_	70	200	1.25	6.3
S.W	_	70	200	1.25	6.3
5BA6 1.F. Amp	1.8	70	200	3.1	6.3
6AV6 Det., A.F. Amp., A.V.C.	.05	_	70*	0.5	6.3
6AQ5 Output	9.0	200	190	34	6.3

Total H.T. Current = 50 mA.

Measured with receiver connected to 32V D.C. Supply.

Total Input Current = Radio 1.3 Amp., Phono 1.8 Amp.

Volume Control maximum clockwise. Power/Tone Switch in "Speech" anti-clockwise position. No signal input. Voltmeter 1000 ohms per volt; measurement taken on highest scale giving accurate readable deflection.

* Cannot be measured with an ordinary voltmeter.

[†] In some receivers this reading may be as high as 60 ohms. The above readings were taken on a standard chassis, but substitution of materials during manufacture may cause variations and it should not be assumed that a component is faulty if a slightly different reading is obtained.

[†] These readings are nominal and will vary due to the Series Heater connections.

CIRCUIT CODE — RADIOLA 562-GF

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250 ohms 3 ,, 50,000 ohms 3 ,, 6 0.5 megohm 3 ,, 5 ohms 25 ,, 10 megohms 3 ,, CAPACITORS .01 µF paper 600V wo					14 µµF mica		7	J2
50,000 ohms 1 6.5 megohm 1 5 ohms 25 10 megohms 1 CAPACITORS 0.01 µF paper 600V wo	(wire wound)				$0.005~\mu F$ paper 600V working		2	_
0.5 megohm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-	25 μ F 40 P.V. Electrolytic		2	
10 megohms 3 ,,, CAPACITORS 0.01 µF paper 600V wo	(banca exim)		1 Z	J3	TRANSFORMERS			
	(Accord)				Loudspeaker Transformer	TU201		
					Vibrator Transformer	17894	In Vibrator Unit	Þ
					LOUDSPEAKED			
	g.			K14	12 inch permanent magnet	20767		
$C_2 = 4$, $\mu\mu$ silvered mice				116				
	18	18321			Dance Switch	77084	·	5
	61		_		Power/Tone Switch	33149	, ,	<u>.</u>
			2 F	F15 S3	Phono/Radio Switch	33152	-	3 8
	ing			115				
C8 V $\mu\mu$ F mica	01	10450			FUSES 3 amp cartridge		_	K17
_				F13 F2	3 amp cartridge			1 7